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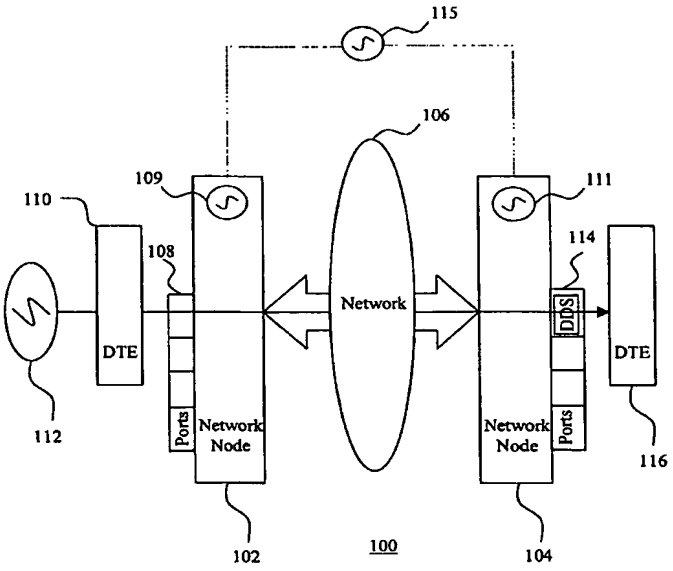
(54) Title: SYSTEM AND METHOD FOR RATE AGILE ADAPTIVE CLOCKING IN A PACKET-BASED NETWORK



(57) Abstract: A system for transmitting a clock signal through a packet-based network is disclosed. The system comprises a first node configured to measure a clock frequency of the clock signal and calculate an accuracy indicator of the measured clock frequency; a second node configured to receive the clock frequency measurement and the accuracy indicator of the clock frequency measurement, and synthesize the clock signal therefrom; and a packet-based network for transmitting the measured clock frequency and accuracy indicator from the first node to the second node. A method of deriving a clock frequency by identifying packets with the shortest total transmission time is also disclosed.

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